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F. N. Kaputskiy, 6 pp.

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Spectroscopic Investigation of the Loss of
Hydroxy Groups of Cellulose Under the Action
of Nitrogen Dioxide, by I. N. Ermolenko, R.
G. Zhabankov, N. Ya. Lenshina, V. S. Ivanova,
V. I. Ivanov, 3 pp.

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ATS WJ-1149

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Spectral Investigation of Cation Exchange on
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Katibnikov, I. N. Ermolenko. pp. 6.

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Spectroscopic Investigations of the Products and
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Peroxide, by M. M. Pavliuchenko, I. N. Ermolenko,
5 pp.

RUSSIAN, no per, Iz Ak Nauk, Ser Fiz, Vol XX, No 5,
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Jun 1957

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The Kinetics of Oxidation of Cellulose by Nitrogen
Peroxide According to Data Obtained from the
Absorption Spectra of the Products, by I. R.
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Assoc Tech Serv RJ-1436
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6 pp.

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Sci - Med
Aug 58

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pp.

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The Structure and Adsorptional Activity of Hydroxides
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Refractometric Data on Higher Molecular Compounds
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Zhur Obshch Khim, Vol XX, No 1, 1950 (Jan), pp 31-37

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TVA Wilson Dan Chen Engi
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Properties of Clay-Hydroxide Adsorbents, by V. S.
Komarov and N. F. Braolenko, p. 7

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167, 384

The Connection Between Structural Inhibitors and
Their Defensive Action on the α,β,γ Oxidation
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The Adsorptive Activity of Cadmium Agglomerates
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11 pp.

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AEC-Tr-4587

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A STUDY OF FORMS OF BONDS BETWEEN FOOD
MATERIALS AND MOISTURE BY THE METHOD OF
PHYSICAL CHARACTERISTICS. [1963] [14]p. 18 refs.
Order from OTS or SLA \$1.60 63-14949

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii.
Pishchevaya Tekhnologiya] (USSR) 1961, no. 1
[p. 140-146].

DESCRIPTORS: Food, Moisture, *Sorption, *Flour,
Bread, *Starches, *Bakery products, Physical proper-
ties, Heat treatment, Temperature, Electrical proper-
ties, Adhesion, Hygrometers.

Proposed is the method of a complex research of
thermophysical, electrophysical and hygrometric
characteristics, with the intention to clarify the forms
of bonds between the moisture and the food products.
(Food, TT, v. 10, no. 7) (over)

63-14949

I. Ermolenko, V. D.

A247565

Office of Technical Services

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of Irreversible Processes to Mass Transfer Phenomena
in Colloids, by V. D. Ermolenko, 3 pp.

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the Form of Tablets for the Treatment of
Influenza and Its Complications in Children,
by Z. V. Ermol'eva, M. E. Sukhareva,
B. M. Nemrovaia, 4 pp.

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Minerals, by E. K. Gerlin, G. M. Ernolin, N. V.
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A STUDY OF THE RELATIONSHIP BETWEEN
PHYSICO-MECHANICAL PROPERTIES AND THE
NATURE OF THE SECONDARY STRUCTURES IN
CRYSTALLINE POLYMERS. II. A PHOTOMICRO-
GRAPHIC STUDY OF SPHERULITE STRUCTURES
IN POLYAMIDE 68 IN BULK. Sep 63, 7p 12refs
Order from PP \$140.00/year in Polymer Science USSR,
v. 4, no. 3, p. 446-452.

Trans. of Vysokomolekulyarnys Soedineniya (USSR)
1962, v. 4, no. 9, p. 1330-1384. (Abstract available)

DESCRIPTORS: *Polyamide plastics, Physical prop-
erties, Mechanical properties, Microstructure,
Stresses, Photomicrography.

By means of the etching method a study has been made
of the secondary structures of Polyamide 68 in relation
(Materials--Plastics, TT, v. 11, no. 1) (over)

TT-63-22211-3 (p. 446-452)

I. Ermolina, A. V.
II. Igonin, L. A.
III. Kargin, V. A.
IV. Title: Photomicrographic...

Office of Technical Services

Electron Diffraction Studies of Polymers. IV.
A Study of Structure Changes in
Polytrifluorochloroethylene in the Interval of the
Melting Temperatures of the Crystals, by A. V.
Ermolina, G. S. Markova, V. A. Kargin,

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Diffraction of Sound in the Acoustic Field
of a Pulse-Type Flaw Detector, by I. . . ~~Ermolov~~,
7 pp. ERMOLOV

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Ultrasonic Flaw Detector and Thickness Gauge, by
I. N. Ermolov, M. F. Krakoviyak, A. S. Matveyev,
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Measurement of Defect Size in Materials With the Ampli-
tude of an Ultrasonic Signal, by I. N. Ermolov, 37 PP
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P. F. Ermolov, et al, 9 pp.

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Vol XLII, No 2, 1962, pp 439-449.

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A Search for Bremsstrahlung Produced in Elastic
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Vol XIV, No 2

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11 Jun 62

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High-Energy Gamma-Radiation From H_2^{24}
by L. V. Gustova, B. S. Dzhelapov,
P. P. Ermolev, O. V. Chubinskiy, 5 pp.

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FORMWORK FOR MASSIVE CONCRETE STRUCTURES IN HYDRO DEVELOPMENTS, 2 ED., REV.
1963, 263p. 41 refs. FL-480 Int.
Order from OTS \$2.75

61-31069

Trans. of mono. Opalubka Massivnykh Sooruzhenii
Gidroelectrostantsii, Moscow/Leningrad, 1954 [348p.].

DESCRIPTORS: *Civil engineering, *Concrete, Structures, *Dams, Hydroelectric power systems, Structural parts, Anchors (Structural), Reinforcing materials, Wood, Construction, Aging, Vacuum apparatus, Hoists, Mathematical analysis, Design

The book deals with problems of the design, construction and erection of formwork for structures of hydroelectric developments. Particular attention is given to the most economic and advanced types of forms, as well as to the mechanism of their manufacture and
(Engineering--Civil, TT, v. 10, no. 8) (over)

61-31069

I. Ermolov, V. V.
II. Petrov, G. D.
III. FL-480 Int (61-31069)
IV. National Science
Foundation, Washington,
D. C.

A247988

Office of Technical Services

EQUIPMENT FOR DETERMINING THE KINETICS OF
VAPORIZATION AND THE VAPOR TENSION OF METAL
POWDERS, BY I. M. FEDORCHENKO, YU. B. ERMOLOVICH,
5 PP.
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I METODY IKH ISSLEDOVANIYA - INFORMATSIONNYYE
MATERIALY, KIEV 1959, PP 13-16.

JPRS 17887

SCI-M/M
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Determination of Evaporation Kinetics and Vapor Pressure of Metal Powders, by I. M. Fedorchenko, Yu. B. Ermolovich, 10 pp ~~400~~

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Interactions Between Cationic Surfactants
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T. A. Ermolaeva

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Sci - Earth Sciences
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Effect of Development Conditions on Microphotometric
Graininess of Photographic Materials, by I.R. Breido,
K.P. Ermoshina.
IZVESTIYA, per ~~En. Razv. Prikl. Eksp. Fiz.~~ Vol. 9,
No. 6, 1964, pp 425-435
GB 131/T 4678

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844 -
Aug 67

379-667

Effect of Development Conditions on
Microphotometric Graininess of Photographic
Materials, by I.I. Breido, K.P. Ermoshina
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khiv, Vol. 9, No. 6, 1964, pp 425-435.
HLA/5828 & 1965 11127

K.P. Ermoshina

Sci -
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Correlation Between Affinity of Water Soluble
Substances for Wool and Their Bactericidal Activity,
by S. Seidenberg, M. Krag, R. Fischer.

SPANISH, per, Experiencia, No 6, 1950, pp 192, 193.

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QMT-260

Western Europe - Leon ???
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The Oxygen Low Shaft Furnace and Its Operation,
by H. Erue,

GERMAN, per, Stahl Und Eisen, Vol LXXIV,
No 25, 1954, pp 1644-1648/ CIA D 151330

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Development of Spoiler ~~REMI~~ Controls for Remote
Control of Flying Missiles, by G. Ernest, M. Kramer

GERMAN, par, ZMB Forschungsbericht, No 1717, Jan 1943

S.L.A. Tr Pool

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3. Combat Action of a Mechanized Brigade, by
E. Ernest, 30 pp; EX 4. Organization of Signal
Communication in a Mobile Group, by A. Borisov, 12 pp.,
UNCLASSIFIED

Full translation.

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1943.

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Military

May 53 CTS 2043

(NY-6430)

PREPARING FOR THE ^SPRING FISHING CAMPAIGN,
BY OTTO ERNEST, 6 PP.

ROMANIA, PER, B INDUSTRIA ALIMENTARA;
PROGRES ANNUALE, NO 3, 1962, PP 65-67.

JPRS 14092

EDUR - ROMANIA
ECON :
JUN 62

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J. Ernestus
Sampling for Moisture-Content Assessment of Wool
and Wool Yarns, by J. Ernestus.
GERMAN, per, Holland Textilberichte, Vol 45, 1964,
pp 1203-1208.

NTC-71-10372-11E

CSIRO/21.7657

Nov 71

Sampling for Moisture-Content Assessment of Wool
and Wool Yarns, by J. Ernestus.
GRIFFIN, per Holland Textiles. Vol. 45, No. 11, 1964,
pp 1203-1208
CSIRO/No. 7657

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Sci -
Aug 67

338-498

SPACE - MAN - TECHNOLOGY, BY NAGY ERNO, 16 PP.

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Johann, 3 pp.

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Nov 58

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Arrangement for Humidification of Powdery,
Granulose and Flocculent Materials, by
Werner, Ernst, Paul Eppenberger, 9 pp.

SWISS, patent, No 274,225.

SLA 60-16889

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Vol IV, No 8
29 May 62

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Anomalous Magnetic Moments of Nucleons in the
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B. M. Ernst, 3 pp.

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No 5 (11), 1959, pp 1342-1345.

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Vol XXXVII (10), No 5

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Jun 60

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(NY-6505)

THE EFFECT OF RADIATION ON BIOLOGICAL PHENOMENA,
BY E. ERNST, 12 PP.

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1960, PP32-390.

JPRS 12921

SLI - BIOL

MAR 62

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Ernst, E.
THE SURFACE TREATMENT OF PLAIN AND
REINFORCED CONCRETE STRUCTURES. [1961]
[19]p.
Order from SLA \$1.60

61-18940

Trans. from mono. Oberflächenbehandlung
Unverkleideter Beton- und Stahlbetonbauten. Berlin,
1949.

DESCRIPTORS: *Concrete, *Reinforced concrete,
*Structures, Germany, Construction, Bridges,
*Finishes, Surface properties.

(Engineering--Civil, TT, v 6, no. 10)

61-18940

1. Ernst, E.

Office of Technical Services

The Mechanism of Autoxydation of Organometallic
Compounds, by H. Hock, H. Kropf, F. Ernst, 13 pp.

GERMAN, per, Angew Chem, Vol LXXI, 1959, pp 541-
545.

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Sci - Chem
Apr 60
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110,923

Ernst, H.
CONCERNING THE TESTING OF DIESEL FUELS.
[1963] [23]p. (3 figs. omitted) 15 refs.
Order from SLA \$2.60 63-14278

Trans. of [ATZ] Automobiltechnische Zeitschrift
(Germany) 1959, v. 42, no. 6, p. 213-221.

DESCRIPTORS: Fuel oil, Diesel engines, Test
methods, Combustion, Ignition lag, Antiknock.

The basic considerations governing a choice of possible
test methods for diesel fuels are discussed. In evalu-
ating the fuels by engine tests, the processes with
variable compression and with variable ignition lag
were used.

(Materials--Fuels, TT, v. 10, no. 7)

63-14278

I. Ernst, H.

1347493

Office of Technical Services

Crane Installations of Low Dead Weight Made
Safe in Operation by Appropriate Design, by
H. Ernst.

GERMAN, per, Stahl und Eisen, Vol LXXXI, Nov 1961,
pp 1665-1672.

BISI 3127

Sci - Engr
Apr 63

229,469

475 Tonne Ladle Handling Crane of New Design and
Low Weight, by H. Ernst.

GERMAN, per, Stahl und Eisen, Vol LXXXII,
26 Apr 1962, pp 513-517.

BISI 2991

Sci - Engr

Jan 63

list 157

219,264

TT-65-14995

Field 13C, 14B, 13M

Ernst, H.-J.; Feder, D.
STRUCTURAL DESIGN AND MODEL TESTS OF AN
UNUSUAL PRESTRESSED CONCRETE CROSS-SECTION.
THE 'JAN WELLEM PLATZ' VIADUCT IN DUESSELDORF.
PT. 1-II. 16p (figs 1 ref omitted) 7refs.
Order from SLA: \$1.60 as TT-65-14995

Trans. of der Bauingenieur (West Germany) v37 n11
p401-5 1962.

MR 699

Ernst, H. and Widmaier, O.
UNIFORM TEST PROCEDURE FOR DIESEL AND
OTTO FUELS ON THE BASIS OF IGNITION LAG
MEASUREMENTS. 11 Apr 49 (9)p. (figs. omitted)
11 refs.

Order from SLA \$1.10

63-14279

Trans. of German language article from unidentified
source, n. d.

DESCRIPTORS: *Fuel oil, Ignition lag, Test methods,
Knocking, Combustion, Analysis, Autoignition,
Diesel engines.

According to our present information a relation exists
between ignition tendency and the knock rating of a fuel,
in that the knock rating decreases with rise in ignition
tendency and vice versa. This relationship makes it
possible to develop, on the basis of ignition lag mea-
surements, a single uniform test procedure for diesel
and otto fuels. (Author)

63-14279

I. Ernst, H.
II. Widmaier, O.

(Materials--Fuels, TT.
v. 10, no. 3)
Office of Technical Services

Ernst, H[ans] and Gross, W.
ENGINE METHOD FOR THE TESTING OF DIESEL
FUELS [1963] 15p. (figs. omitted) 11 refs.
Order from SLA \$1.60 63-14269

Trans. of German language article from unidentified
source, n.d.

DESCRIPTORS: *Fuel oil, *Ignition lag, Test methods,
*Diesel engines, Measurement.

In order to explain the influence of the various oper-
ating conditions upon the ignition delay, studies were
carried out by means of a specially developed method
of measurement. Test of a fuel by this process
evaluates the fuel in terms of its ignition delay. (Author)

(Materials--Fuels, TT, v. 10, no. 3)

63-14269

I. Ernst, H.
II. Gross, W.

Office of Technical Services

Ernst, H[ans].
IGNITION LAG MEASUREMENT AND FUEL EVAL-
UATION. 17 June 48, 6p. (Age. omitted).
Order from SLA \$1.10

63-14276

Trans. of German language article from unidentified
source, n. d.

DESCRIPTORS: *Ignition lag, *Fuel oil, Measurement,
Test methods, Combustion, Knocking, Combustion
chamber gases, Internal combustion engines.

(Materials--Fuels, TT, v. 10, no. 3)

63-14276

I. Ernst, H.

Office of Technical Services

Ernst, Hans.

IGNITION DELAY AND EVALUATION OF FUELS:
BASIS FOR THE DEVELOPMENT OF A UNIFORM
TEST METHOD FOR DIESEL AND OTTO FUELS
[Zündverzug und Bewertung des Kraftstoffs: Grundlagen
zur Entwicklung eines einheitlichen Prüfverfahrens für
Diesel- und Ottokraftstoffe]. 26 Jun 47, 32p. (figs.
omitted) 26 refs.

Order from OTS or SLA \$3.60

63-10993

Trans. of [Deutsche Kraftfahrtforschung (Germany)
1941, no. 63, p. 1-20] (PB-34469).

DESCRIPTORS: *Fuels, *Ignition lag, Test methods,
Fuel oil, Diesel engines, Combustion, Combustion
chamber gases, Pressure, Temperature, Antiknock.

The behavior of fuels upon transformation in the Diesel
engine is at the present time generally evaluated by
(Materials--Fuels, TT, v. 10, no. 3) (over)

63-10993

- I. Ernst, H.
- II. Title: Basis ...
- III. PB-34 469

Office of Technical Services

Observations on the Action of Dilute Hydro-
fluoric Acid on Glass Surfaces, by Boneff,
Stoyan, Schwiete, Hans Ernst, 29 pp.

GERMAN, per, Glastechnische Berichte, 1956,
Vol XXIX, No 4, pp 120-128.

SLA 59-10616

Sci - Chem
ONS I, 12
Jul 59

92, 296

New Adhesive Product and Support Material
Coated ~~II~~ or Impregnated With This Product,
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